





Multimeter Selection Guide

	31	0 Sei	ine	32	0 Se	rias	350 Series		36	in .	490		600	61	ın	
	0															
	61-310	61-312	61-314	61-320	61-322	61-324	61-350	61-352	61-354	61-360	61-361	61-494	61-495	61-605	61-610	61-614
MULTIMETER SELECTION GUIDE	2	-5	<u>5</u>	5	- 5	<u>6</u>	<u>6</u>	<u> </u>	<u>-</u>	- 2	<u>6</u>	20	- 5	-5	6	<u>5</u>
MEASUREMENT FUNCTIONS																
AC & DC Voltage	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AC Current	•	•	•		•	•		•	•	•	•	•	•			
DC Current		•	•	•	•	•		•	•	•	•	•	•		•	•
Resistance	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LV Resistance												•	•			
Audible Continuity	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
Diode Test	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Capacitance		•	•	•	•	•		•	•		•	•	•			
Frequency		•	•	•	•	•		•	•		•	•	•			
Temperature	•	•	•									•	•			
Duty Factor												•	•			
Battery Test	•														•	•
Decibels												•	•			
Phase Rotation											•					
FEATURES																
Display Type (Digital or Analog)	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Α	Α
True RMS			•		•	•			•		•	•	•			
Auto/Manual Ranging		•	•	•	•	•	•	•	•			•	•	•		
Data Hold/Auto Hold	D	D	D	D	D	D	D	D	D	D		Α	Α	D		
Max Hold										•						
Peak Hold				•	•	•						•	•			
Min/Max				•	•	•		•	•							
Min/Max/Avg												•	•			
Peak Min/Max				•	•	•						•	•			
Relative Mode				•	•	•						•	•			
High Speed Analog Bar Graph				•	•	•						•	•			
Auto Power Off		•	•	•	•	•	•	•	•	•	•	•	•	•		
Backlight						•						•	•			
Low Battery Indication		•	•	•	•	•	•	•	•	•	•	•	•	•		
Non-Contact Voltage							•	•	•							
Dual Display												•	•			
Overload Protection on All Ranges	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Data Logging												•	•			
Data Acquisition						•						•	•			
Memory Storage & Recall												•	•			
Optical RS-232 Interface						•						•	•			
Optional ProVision™ Software						•						•	•			
Warranty (years)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CERTIFICATIONS	_	_	_	_	_	_		_	_		_		_	_	_	_
UL 61010 Listed c(VL)us	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CAT Rating	II	II		IV	IV	IV	III		III	III	III	III		II	II	II
CE	- 11	- 11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
VL		•	•		•			•	-	•	-	_	•	_ •		•

PlathumPro®

Contractor-Grade Multimeters







AC/DC voltage

- Capacitance
- Frequency
- Auto/manual ranging
- Peak min/max
- Max/min
- Relative mode
- Data hold
- Low battery indicator
- Auto power off
- 2-year warranty

61-322 True RMS, AC/DC current





320 Series Specificat	ions	61-320	61-322	61-324		
	RANGE & RESOLUTION	BASIC ACCURACY				
AC VOLTAGE	400.0m/4.000/40.00/400.0/750 V	1.3%	1.3%	1.3%		
DC VOLTAGE	400.0m/4.000/40.00/400.0/1000 V	0.5%	0.5%	0.5%		
AC CURRENT	400.0μ/4000μ/40.00m/400.0m A	_	1.5%	1.5%		
DC CURRENT	400.0μ/4000μ/40.00m/400.0m A	1.5% (µA range only)	1.5%	1.5%		
RESISTANCE	400.0/4.000k/40.00k/400.0k./4.000M/40.00M Ω	0.7%	0.7%	0.7%		
CAPACITANCE	4.000n/40.00n/400.0n/4.000μ/40.00μ/ 400.0μ/4.000m/40.00m F	1.9%	2.0%	2.0%		
FREQUENCY	4.000k/40.00k/400.0k/4.000M/40.00M Hz	0.01%	0.1%	0.1%		

Accessories

Includes	
Premium Test Leads w/Alligator Clips	TL-100
Optional	
Carrying Case	C-290
Current Clamp Adapters (page E-30)	
Magnetic Strap	61-565
ProVision™ Software	61-904
RS-232 Cable	61-905



61-904

320 Series ProVision™ **Software**



61-565

Magnetic hand strap fits Platinum Pro® and 350 **Series Multimeters**





PlathumPro®

Industrial-Grade Multimeters

Features

- CAT
- True RMS
- Data acquisition
- Data logging
- Data storage
- Frequency
- Capacitance
- Temperature
- Low voltage Ω
- Duty factor
- dBm/dB
- Auto/manual ranging
- Dual display
- Analog bar graph
- Auto power off
- Peak hold
- Min/max/avg
- Relative mode
- 20,000 count high resolution mode
- Backlight
- Low battery indication
- 2-year warranty





61-495

Data logging (40,000 records), thermocouple, software and cable interface included



Data acquisition and analysis with 490 ProVision™ software.

Accessories

Includes	
Carrying Case	C-290
Premium Test Leads with Alligator Clips	TL-100
Optional	
Current Clamp Adapters (page E-30)	
Magnetic Strap	61-565
ProVision™ Software*	61-900
RS-232 Cable*	61-902

*Included with 61-495

490 Series Specifications 61-494 61-495 **BASIC ACCURACY RANGE & RESOLUTION AC VOLTAGE** 20.000m/200.00m/2.0000/20.000/200.00/750.0 V 0.7% DC VOLTAGE 20.000m/200.00m/2.0000/20.000/200.00/1000.0 V 0.06% 0.06% **AC CURRENT** 20.000m/200.00m/2.0000/10.000 A 0.1% 0.1% DC CURRENT 20.000m/200.00m/2.0000/10.000 A 0.3% 0.2% 200.00/2.0000k/20.000k/200.00k/ RESISTANCE 0.6% 0.6% $2.0000M/20.000M/200.00M/2.0000G\ \Omega$ 2.0000k/20.000k/200.00k/ LV RESISTANCE 0.3% 0.3% 2.0000M/20.000M/200.00M Ω 4.000n/40.00n/400.0n/4.000u/ 40.00u/ CAPACITANCE 0.9% 0.9% 400.0µ/4.000m/40.00mF FREQUENCY 20.000/200.00/2.0000k/20.000k/200.00k/1.0000M Hz 0.01% 0.01% **DUTY FACTOR** 20% - 80% 1.0% 1.0% **TEMPERATURE** -150° F to 2200° F (-100° C TO 1200° C) 0.1% 0.1%









61-900 490 Series ProVision™ Software



61-902

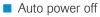
Optical RS-232 Cable For 490 and 630 Series Meters

61-350 Series Meters

Features



- AC/DC voltage
- Auto/manual ranging
- Non-contact voltage (80-600VAC)
- Resistance
- Audible continuity
- Diode test
- Data hold
- Low battery indicator



2-year warranty





61-354

TRMS, AC/DC current, frequency, capacitance, max/min



AC/DC current, frequency, capacitance, max/min

61-352

350 Series Specifications	61-350		61-352		61-354		
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY	
AC VOLTAGE	200.0m/2.000/20.00/200.0/750V	1.5%	200m/2/20/200/750 VAC	1.5%	200m/2/20/200/750 VAC	1.5%	
DC VOLTAGE	200.0m/2.00/20.00/200.0/1000V	0.5%	200m/2/20/200/1000 VDC	0.5%	200m/2/20/200/1000 VDC	0.5%	
AC/DC CURRENT	_	1.5%	2.000A/10.00 A	1.5%	2.000A/10.00 A	1.5%	
RESISTANCE	200/2k/20k/200k/2M/20M Ω	0.7%	200/2k/20k/200k/2M/20M Ω	0.7%	200/2k/20k/200k/2M/20M Ω	0.7%	
CAPACITANCE	_	2.0%	2.00µ-200.0µ/2.000m F	2.0%	2n-200μ/2.000m F	2.0%	
FREQUENCY	_	0.01%	2k/20k/200k/2M/20M Hz	0.01%	2k/20k/200k/2M/20M Hz	0.01%	







Accessories

Includes	
Premium Test Leads w/Alligator Clips	TL-100
Optional	
Carrying Case	C-290
600A AC/DC Clamp Adapter	61-334
Current Clamp Adapters	61-451
Magnetic Strap	61-565

61-565

Magnetic hand strap fits Platinum Pro® and 350 **Series Multimeters**







Test-Pro® **Contractor-Grade Multimeters**

Features



- AC/DC voltage
- AC/DC current
- Resistance
- Audible continuity
- Manual ranging
- Rugged construction
- Auto power off
- Low battery indication
- 2-year warranty



360 Series Specificat	61-360	61-361	
	RANGE & RESOLUTION	BASIC AC	CCURACY
AC VOLTAGE	200.0m/2000m/20.00/200.0/600 V	1.0%	2.0%
DC VOLTAGE	200.0m/2000m/20.00/200.0/600 V	0.5%	1.2%
AC CURRENT	2.000 A	1.5%	3.0%
DC CURRENT	2.000 A	1.0%	2.5%
RESISTANCE	200.0/2.000k/20.00k/200.0k/20.00M/200.0M Ω	1.0%	1.0%
CAPACITANCE	20.00µ/200.0µ/2.000m/20.00m F	_	4.0%
FREQUENCY	10.0-100.0k Hz	_	0.50%
PHASE Rotation		_	80-500V (50-500Hz)



61-360 Max hold, data hold

61-361

True RMS, phase rotation,

capacitance, frequency

Accessories

Includes	
Standard Test Leads	TL-58
Alligator Clip Lead	K-7515
Optional	
Carrying Case	C-290
Current Clamp Adapters (page E-30)	



600 Series Pocket Meter

Features

- Low cost, multi-function
- Convenient pocket size
- Built-in test stand
- Overload protection on all ranges
- 2-year warranty



310 Series Digital Meters

Features



- AC/DC voltage
- Current
- Resistance
- Audible continuity
- Temperature
- Data hold
- Diode test
- Large numbers displayed
- Overload protection on all ranges
- Rubber boot
- 2-year warranty



batteries, DC current



61-312

Auto ranging, AC/DC current, capacitance, frequency, auto power off, low battery indication



61-314

Auto ranging, true RMS, AC/DC current, capacitance, frequency, auto power off, low battery indication

310 Series Speci	fications 61-31	0	61-312 & 61-314	61-605		
	RANGE & Resolution	ACCURACY	RANGE & Resolution	ACCURACY	RANGE & Resolution	ACCURACY
DC VOLTAGE	200.0m/2.000/20.00/200.0/600 VD	C 0.8%	400.0m/4.000/40.00/400.0/600 VDC	0.8%	200.0m/2.000/20.00/200.0/600 V	2.0%
AC VOLTAGE	200.0/600 VAC	1.2%	4.000/40.00/400.0/600 VAC	1.2%	200.0m/2.000/20.00/200.0/600V	4.0%
CURRENT	200.0m/10 ADC	1.5%	400.0μ/4000μ/40.00m/400.0m/10A AC/DC	1.5%	<u>—</u>	_
RESISTANCE	200.0/2.00k/20.00k/200.0k/20M	1.0%	400.0/4.000k/40.00k/400.0k/4.000M/40.00M Ω	1.0%	200.0/2.000k/20.00k/200.0k/ 2.000M/20.00MΩ	3.0%
CAPACITANCE	_	3.0%	40.00n/400.0n/4.000µ/40.00µ/400.0µ F	3.0%	_	_
FREQUENCY	_	3.0%	10.00/100.0/1.000k/10.00k/1.000M/10.00M Hz	3.0%	_	_
TEMPERATURE	-4-1382°F (-20-750°C)	1.0%	-4-1382°F (-20-750°C)	1.0%	_	_





Analog Multimeters



- Multi-color analog display with mirrored scale
- High-impact thermoplastic case
- Battery test
- 2-year warranty





610 Series Specificati	ons 61-61	61-614				
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY		
AC VOLTAGE	10/50/250/500 V	+/- 4.0% Full Scale	10/50/250/1000 V	+/- 4.0% Full Scale		
DC VOLTAGE	10/50/250/500 V	+/- 3.0% Full Scale	2.5/10/50/250/1000 V	+/- 3.0% Full Scale		
DC CURRENT	500μ/50m/250m A	+/- 3.0% Full Scale	5m/50m/500m/20 A	+/- 3.0% Full Scale		
RESISTANCE	1 M Ω Full Scale 5 k Ω Mid Scale	+/- 3.0% Arc Length	10k/100k/10M Ω Full Scale 50/500/50k Ω Mid Scale	+/- 3.0% Arc Length		
DECIBELS	-20 to +56 dB		-8 to +62 dB			
BATTERY TEST	_		1.5 , 9.0 VDC			







Clamp Meter Selection Guide

		70	0 Ser	ies		73	0	76	D Ser	ies	77	0
	152				무							
CLAMP METER SELECTION GUIDE	61-452	61-701	61-702	61-704	61-710	61-732	61-736	61-764	992-19	61-768	61-772	61-774
MEASUREMENT FUNCTIONS												
AC Voltage	•	•	•	•	•	•	•	•	•	•	•	•
DC Voltage		•	•	•		•	•	•	•	•	•	•
AC Current	•	•	•	•	•	•	•	•	•	•	•	•
DC Current										•		•
Resistance	•	•	•	•	•	•	•	•	•	•	•	•
Audible Continuity	•	•	•	•		•	•	•	•	•	•	•
Diode Test		•	•	•								
Capacitance		•	•	•					•			•
Frequency		•							•			
Temperature												
Leakage Current	•											
FEATURES												
Display Type (Analog or Digital)	D	D	D	D	Α	D	D	D	D	D	D	D
AC Current Capacity	60	200	200	200	600	400	400	660	660	660	1000	1000
DC Current Capacity										660		1000
True RMS				•			•		•	•	•	•
Auto/Manual Ranging						•	•	•	•	•	•	•
Data Hold	•	•	•	•		•	•	•	•	•	•	•
Max Hold		•	•	•								
Inrush Current								•	•	•	•	•
Min/Max	•							•	•	•	•	•
DCA Zero										•		•
Pointer Lock					•							
Auto Power Off	•	•	•	•		•	•	•	•	•	•	•
Non-Contact Voltage Indication		•	•	•		•	•					
Harmonics Indicator			•	•								
Vibration Mode			•	•								
Analog Output												
Backlight				•				•	•	•	•	•
Low Battery Indication	•	•	•	•		•	•	•	•	•	•	•
High Voltage Warning		•	•	•				•	•	•	•	•
Overload Protection	•	•	•	•		•	•	•	•	•	•	•
Conductor Size - Inches (mm)	1.2" (30)	1.3" (33)	1.3" (33)	1.3" (33)	1.2" (30)	1.3" (33)	1.3" (33)	1.4" (36)	1.4" (36)	1.4" (36)	2.0" (51)	2.0" (51)
Warranty (years)	2	2	2	2	2	2	2	2	2	2	2	2
CERTIFICATIONS												
UL 61010 Listed c(VL)us		•	•	•		•	•	•	•	•	•	•
CAT Rating		Ш	III	Ш		III	III	IV	IV	IV	IV	IV
CE	•	•	•	•	•	•	•	•	•	•	•	•



4-in-1 Test Tools

Features



- 200AAC current capability
- Non-contact voltage (40-600VAC)
- Capacitance
- Low battery indication
- Overload protection on all ranges
- Integral lead storage
- Audible dangerous voltage warning on all ranges
- Auto power off
- Ergonomic hourglass shape
- Compact clamp head
- 2-year warranty





200 Amp Clamp/Multimeter Use it for testing a variety of electrical parameters on branch circuits or at

receptacles.



Non-Contact Voltage Tester Use it for one-touch indication of power without test leads.



61-701

Frequency, data hold, max hold, **CAT III - 600V**



Vibration mode to verify AC voltage, harmonics indicator, max hold, **CAT III - 1000V**





Voltage Tester with Shaker Use it for tactile feel of AC voltage.



Harmonics Tester Use it to ensure that a circuit contains clean power, free of harmonic distortion.

Accessories

Includes	
Carrying Case	C-700
Silicone Test Leads	TL-102

700 Series Specifications 61-701		61-702 & 61-704		
	RANGE & RESOLUTION	BASIC ACCURACY	RANGE & RESOLUTION	BASIC ACCURACY
AC VOLTAGE	200.0/600 V	1.2%	2000m/200.0/750 V	1.2%
DC VOLTAGE	20.00/200.0/600 V	0.5%	2000m/200.0/1000 V	0.5%
AC CURRENT	200.0 A	3.0%	200.0 A	3.0%
RESISTANCE	200.0/200.0k Ω Scale	1.0%	200.0/200.0k Ω	1.0%
CAPACITANCE	200.0μ F	3.0%	200.0μ F	3.0%
FREQUENCY	2.000k/20.00k/40.00k Hz (Auto	0.1%	_	

Jaw opening is 1.3" (33mm).







400 Amp Clamp Meters

Features



- Measures up to 400AAC
- Non-contact voltage indicator (70V-600VAC)
- Tapered jaws with hook tip
- Auto/manual ranging
- Data hold
- Auto power off
- Low battery indicator
- 2-year warranty







Accessories

Includes	
Carrying Case	C-90
Standard Test Leads	TL-58

730 Series Specificat	ions	61-732	61-736
	RANGE & RESOLUTION	BASIC AC	CCURACY
AC CURRENT	40.00/400.0 A	1.7%	1.7%
AC VOLTAGE	400.0/600 V	1.2%	1.2%
DC VOLTAGE	400.0/600 V	0.5%	0.5%
RESISTANCE	400.0/4.000k/ 40.00k 400.0k/4.000M/40.00M Ω	1.0%	1.0%

Jaw opening is 1.25" (32mm).





Compact jaw for use in tight locations.



660 Amp Clamp Meters w/TightSight™ bottom display

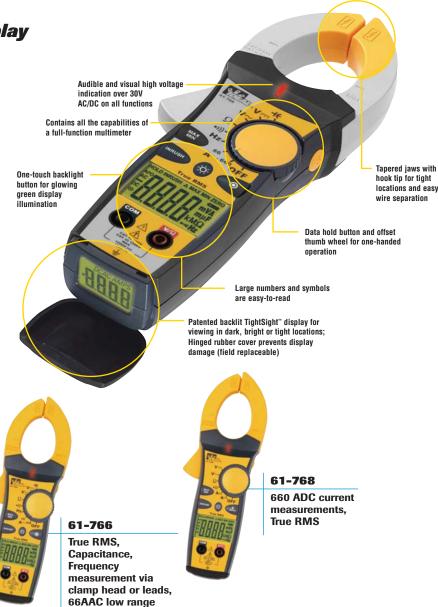




- Measures up to 660AAC
- Voltage-presence warning on all lead functions (selectable audible)
- Bright, bold backlit display
- Tapered jaws with hook tip
- Max/min
- Inrush current
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator

2-year warranty





760 Series	61-764	Range & Resolution 61-766	61-768	Accuracy
AC Current		66.00/660.0 A	660.0 A	1.7%
DC Current	_	_	660.0 A	1.5%
AC Voltage	660m/6.600/66.00/660.0/750 V			1.2%
DC Voltage	660m/6.600/66.00/660.0/1000 V			0.5%
Resistance	660.0/6.600k/66.00k/660.0k/6.6M/10M Ω			1.0%
Capacitance	-	6.600µ/66.00µ/660.0µ F	-	3.0%
		20 - 400 Hz		
Frequency	-	Sensitivity: ≥5A for 20-100 Hz	-	0.1%
		≥10A for 100-400 Hz		

Jaw Size 1.42" (36 mm)





Accessories

Includes	
Carrying Case	C-760
Test Leads w/Alligator Clip	TL-104

Safety First!

The complete line of industrial clamps from IDEAL was designed to set a new standard for safety technology. It starts with the revolutionary TightSight™ display. It allows an electrician to keep his head and face out of potentially dangerous panels while viewing the measurement. The high voltage indicator is another feature not to be taken for granted. It indicates the presence of voltage through the test leads even with the dial set to the wrong function. The CAT III and IV ratings, rugged construction and UL listing should give every electrician the confidence to go about the job without worrying about equipment safety.

1000 Amp Clamp Meters w/TightSight™ bottom display

Features





- Measures up to 1000A
- Voltage-presence warning on all lead functions (selectable audible)
- Bright bold backlit display
- Tapered jaws with hook tip
- True RMS
- Max/min
- Inrush current
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator
- 2-year warranty



Exclusive TightSight™ Display

770 Series	Range & 61-772	Resolution 61-774	Accuracy
AC Current	66.00/6	660.0/1000 A	1.7%
DC Current	-	660.0/1000 A	1.5%
AC Voltage	660m/6.600/66.00/660.0/750 V		1.2%
DC Voltage	660m/6.600/66.00/660.0/1000 V		0.5%
Resistance	660.0/6.600k/66.00k/660.0k/ 6.6M/10M Ω		1.0%
Capacitance	-	6.600µ/66.00µ/ 660.0µ F	3.0%

Jaw Size 2" (51 mm)









Accessories

Includes	
Carrying Case	C-770
Test Leads w/Alligator Clip Lead	TL-104





Analog Clamp Meter

Features

- Analog display
- Pointer lock
- 2-year warranty Includes carrying case

710 Series Specifications 61-710				
	RANGE & RESOLUTION	ACCURACY		
AC VOLTAGE	150/300/600 V	3.0% F.S.		
DC VOLTAGE	_			
AC CURRENT	6/20/60/200/600 A	3.0% F.S.		
RESISTANCE	2k Ω	3.0% F.S.		
TEMPERATURE	_			





Leakage Current Clamp Meter



- 40mA to 60AAC current capability
- Data hold
- Analog bar graph
- Min/max
- 2-year warranty Includes carrying case

Current Clamp Specifications 61-452				
	RANGE & RESOLUTION	ACCURACY		
AC VOLTAGE	400.0 V	1.5%		
AC CURRENT	40.00/400.0m/4.000/40.00/60.0 A	2.0%		
RESISTANCE	400.0 Ω	1.0%		





Combo Cases™

Features

- Top selling tools in rugged cases
- Unmatched value
- Large storage compartments
- 2-year warranty

61-2000

Tester Combo Case™ Includes: #61-086 Vol-Con® XL Voltage Tester #61-534 Circuit Breaker Finder #61-063 Non-Contact Voltage Tester





Meter Combo Case™ Includes: #61-350 Multimeter #61-732 400 Amp Clamp



61-2002

Clamp Combo Case™ Includes: #61-766 TightSight™ Clamp Meter #61-521 Phase Rotation Tester





SureTest® Open/Closed Circuit Tracers

Features



- Identifies breakers and fuses
- Pinpoints opens and shorts
- Traces wires
- "0-99" display of signal strength
- Audible intensifies in tone/pitch
- Can be used on circuits 0-600V AC/DC
- Works on energized or de-energized circuits
- Four modes of sensitivity search high, search low, trace and breaker
- Peak bar graph
- 2-year warranty





61-958

Super bright rotating OLED display receiver, transmitter, test lead set, inductive clamp, battery pack



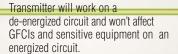
61-956

Super bright rotating OLED display, transmitter, test lead set



Exclusive Rotating Display

Revolutionary technology in the SureTest® 958 rotates the display in 90° increments so that you always receive an upright reading. Even when the receiver is pointing down, you can keep up.







E-16 www.idealindustries.com

SureTest® Circuit Tracers



In Breaker Mode receiver identifies the correct circuit to which the transmitter is connected.



Inductive Clamp allows you to induce a tracer signal on the cable without affecting the low voltage signals on the circuit.



Sorting Wires Individual wires can be sorted, opens can be located and shorts can be isolated.



IC-958, BP-958 Inductive Clamp w/ **Battery Pack**



RC-954 Receiver Red LED display



TR-958 **Transmitter**

Kit Components

Kit Contents	61-954	61-956	61-958
Transmitter	TR-958	TR-958	TR-958
Receiver	RC-954	RC-958	RC-958
Tracer Test Lead Set	TL-956	TL-956	TL-956
Inductive Clamp			IC-958
Battery Pack			BP-958
Hard Carrying Case	C-954	C-954	C-958
Batteries			•
Instruction Manual	_	-	

SureTest® Circuit Tracer Specifications			
<u>Transmitter:</u>			
Operating Voltage	0 - 600V AC/DC		
Battery Power	1.5V x (4) AA batteries (NEDA 15A, IEC LR6)		
Battery Life	25 hours open circuit testing/6 hours short circuit tracing		
Indicators	On/Off, Line energized, low battery		
Receiver:			
Sensing	Magnetic		
Battery Power	1.5V x (3) AA batteries (NEDA 15A, IEC LR6)		
Battery Life	20 hours		

Accessories

RC-958

Receiver

Includes	
Fuse – High-energy, Fast-acting, 1A/1000V	F-956
Magnetic Strap	61-565
Tracer Test Lead Set (includes 1-6 below)	TL-956
1. Outlet Plug Adapter for Transmitter	TLOP-956
2. Blade Prongs for Lead Adapters (2/set)	TLBP-956
3. Ground Prong for Lead Adapter	TLGP-956
4. Alligator Clips for Lead Adapters (2/set)	TLAC-956
5. 3 ft. Lead Adapters for Transmitter (2/set)	TLA1-956
6. 25 ft. Lead Adapter for Transmitter	TLA2-956





Features

- Ground resistance measurements
- Auto ranging
- Auto power off
- 2-year warranty



61-788

MEGGER® 3-Pole Meter

2- & 3-point fall of potential methods, easy single pushbutton operation, includes terminal shorting bars, rugged weatherproof construction, optional lead set (61-798) not included







Ground Resistance Clamp

Large clamp size, backlight, saves up to 99 measurements





61-789

MEGGER® 4-Pole Meter

3- & 4- fall of potential methods, soil resistivity, easy single push-button operation, includes terminal shorting bars, rugged weatherproof construction, optional lead set (61-798) not included.

61-798

MEGGER[®] Earth Resistance Lead Set Kit

Kit includes four silicone test leads with alligator clips (3,15, 30, 50m), 20 in. auxiliary grounding rods (2 pr.) and padded nylon carrying case

Specifications	61-920		61-788		61-789	
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY
GROUND RESISTANCE	0/120/1200Ω	1.5%	200.0/2.00kΩ	2.0%	400.0/600/1500 Ω	2.0%
GROUND LEAKAGE CURRENT	100m/1000m/15/30 A	2.0%	_		_	
SOIL RESISTIVITY	_	_	_		20.00/200.0/2.000k/20.00kΩ	2.0%

MEGGER® is a registered trademark of Megger, Inc.





^{*}Clamp accomodates conductor size up to 1.25 in. (32mm).

Features



- Checks new installations for proper insulation
- Checks existing installations and motor windings for breakdowns in insulation
- 2-year warranty



61-791

MEGGER* Hand-held

Insulation Tester Test voltage: 250/500/1000V, test inhibition >25V, default voltmeter to 600V AC/DC, digital display with analog arc, auto discharge, auto power off, auto ranging, protective rubber boot, continuity, low battery indication, Cat III – 300V, includes carrying case



61-792

MEGGER® 5kV Insulation Tester 500V/1000V/2500V/5000V test voltages, battery or hand-crank operation, auto

discharge, AC/DC voltage to 600V, battery test, Cat III - 300V, includes carrying case

Insulation Tester Specifications 61-791 61-792				
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY
TEST VOLTAGE	250/500/ 1000 V		500/1000/ 2500/5000 V	
INSULATION RESISTANCE	999ΜΩ	3.0%	100k - 20 G Ω	5.0%
CONTINUITY	0.01-100Ω	3.0%		

MEGGER® is a registered trademark of Megger, Inc.





The IDEAL Power Quality Analyzer is a versatile and easy-to-use tool that will give you the information you need to get the job done. The unit measures and analyzes power quality on both single-and three-phase electrical systems. Instaneous readouts of current, voltage, power and harmonics including tables, bar graphs and even individual waveforms, make job site data interpretation easy. With a real-time clock and 1MB of memory, the Power Analyzer stores data that can be downloaded to a personal computer for in-depth analysis using PowerVision™ software.

It's everything a professional needs for monitoring and analysis in a single unit: rugged, versatile and easy to use. Models available with 3 or 4 current channels to meet your needs and budget.

3-Phase Power Analyzer

Features

- True RMS
- Single- or three-phase measurements
- Data logging (1MB memory)
- Up to one month of recording time
- 4-channels for voltage measurements
- 4-channels for current measurements*
- Auto ranging
- Min/max/avg
- Energy and Harmonics Program
- PowerVision[™] Software
- Lightweight, portable design
- Easy-to-use push-button operation
- Backlit display
- Customized data collection
- 2-year warranty

- Optional FIFO memory
- Real-time clock
- Programmable trigger-points and start/stop time
- Intelligent battery charging system
- Easy set-up
- Interactive demo CD

Power & Energy Measurements

- Kilowatts (KW)
- Volt-amperes (VA)
- Inductive reactive power (kvarL)
- Capacitive reactive power (kvarC)
- Power factor (PF)
- Frequency
- Kilowatt hours (kWh)
- Reactive power per hour (kvarhL, kvarhC)



Harmonics Measurements

- Total harmonic distortion (% THD)
- Harmonic factorization (FFT) to 51st harmonic

*Model 805 equipped with three channels for current



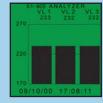
Power Analyzer	Specifications 61-805, 61-806, (61-807
	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	20 to 600 V (phase-neutral) 20 to 866 V (phase-phase)	0.5% 0.5%
AC CURRENT	10 to 1000 A (with supplied clamp adapters) 1.0%
ACTIVE POWER	866 kW (with supplied clamp adapters)	1.0%
REACTIVE POWER	866 kW (with supplied clamp adapters)	1.0%
POWER FACTOR	0.5 to 1.0	1.0%

Power Analyzer Display Screens

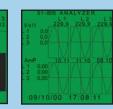


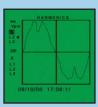


Exploded View



Bar Graph





Scope View

Waveform Zoom



Accessory Clamps

Accessories	
1000AAC clamps (set of 3)	61-811
100AAC neutral clamp (1)	61-813
5AAC compact neutral clamp (blue)	61-814
2000AAC clamps (set of 3)	61-810
500AAC clamps (set of 3)	61-812
5AAC compact clamps (set of 3)	61-819
100AAC compact clamps (set of 3)	61-820
100AAC compact neutral clamp (blue)	61-821
200/2000/20000AAC Flexible clamp adapters (set of 3)	61-457



200/2000/20000AAC Flexible Clamp Adapters

Standard Equipment	61-805	61-806	61-807
1000AAC Clamps (61-811)	•	•	•
100AAC Neutral Clamps (61-813)			•
Voltage leads with Alligator Clips (TL-806)	•	•	•
Power supply with RS-232 Interface and cables	•	•	•
PowerVision™ Analysis Software	•	•	•
Demonstration CD and Instructions	•	•	•
Protective Carrying Case	•	•	•















100AAC Compact



100AAC



500AAC Current Clamp

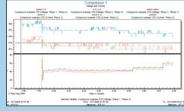


2000AAC **Current Clamp**

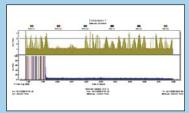
PowerVision™ Software

PowerVision™ software provides intuitive analysis of data and automatic generation of useful tables and graphs. Files are easily downloaded from any 800 series unit.

PowerVision™ provides multiple ways to view basic and detailed information, allowing you to customize readouts according to your trouble shooting needs. Compare up to 12 variables simultaneously. Easily scroll through, expand and collapse data over time. Compare data from multiple files to show before and after studies. Data can be exported to text files, databases, graphs and tables can be pasted into Excel or Word reports. Highly-trained technical support people are always a phone call away.



Current and Voltage



Harmonic Distortion



Voltage Performance Monitor (VPM)

Applications

Monitor voltage near sensitive equipment

- Installation and Service Technicians
 - Monitor voltage at point of equipment connection
- - Eliminate guesswork on service calls
- · Building Maintenance Technicians
 - Identify voltage caused equipment failures
- Equipment Manufacturers
 - Eliminate unnecessary warranty costs
- Hospital/IT Maintenance Engineers
 - Monitor voltage quality to critical equipment

Features



- Real-time TRMS voltage, frequency and harmonics monitoring
- Logs voltage, sags, swells and impulses
- Measures %THD and logs periods over 3% (line to neutral)
- Selectable thresholds based on the most accepted international standards, defaults to ITIC*
- Custom programmable event thresholds
- Invertible display, when it is necessary to plug in upside down
- 2-year warranty
- *Captures events that would affect equipment on branch circuit



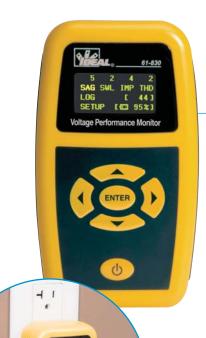
Accessories

Includes	
Replacement Adapters (set of four)	PA-830
Replacement Carrying Case	61-179
Optional	
Alligator Clip Adapters (2-wire)	TL-532
1 ft. US Extension Cord	61-177
Kit w/(1) SureTest® 164, (2) VPM 61-830, Soft Case	61-2003
Kit w/(1) SureTest® 164, (4) VPM 61-830, Soft Case	61-2004

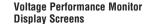
Specifications	61-830	
Operating Range	15-265V	
Memory	512 events	
Sampling Method	Continuous (128 samples per cycle)	
Voltage Accuracy	1%	
Impulse Detection	6µs, 4kV	
THD	FFT calculation	

See voltage through the eyes of your equipment

Poor voltage quality increases facility expenses, warranty costs and downtime plus shortens the life of equipment. The IDEAL VPM identifies voltage conditions that can damage equipment or cause equipment failure.

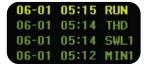


61-830



SAG SWL IMP THD 129V 60.0Hz 2.3% 08:39 06-22-2006

Monitor Screen: Real-time information on voltage, voltage events and harmonics.



Log Screen: Review events by category or chronological order.

2 Cycles 70 V 68V 2.5 Cycles 05:14:03 06-01-06

Event Detail: Provides a time stamp with event magnitude and duration.

1.0 kV 72 uS 08:43:40 08-24-06

Impulse Detail: Fast response catches positive and negative impulses up to

Set Nominal 120V Set Standard ITIC

Set Standard: Select from more than a dozen threshold options based on existing standards or customize your own (defaults to ITIC).



SureTest® Circuit Analyzers

Features



- Super-bright display
- High accuracies
- Measures voltage drop under full load*
- True RMS
- Line voltage
- Peak voltage
- Frequency
- Ground to neutral voltage
- Ground impedance
- Hot and neutral conductor impedances
- Identifies proper wiring in 3-wire receptacles
- Identifies false (bootleg) grounds
- Tests GFCIs and EPDs for proper operation
- Conducts testing without disturbing sensitive loads
- Verifies isolated grounds (with 61-176 adapter)
- 2-year warranty

*12A, 15A, 20A load tests









Accessories

Includes	
Carrying Case	61-179
1' Extension Cord	61-182
Optional	
Ground Continuity Adapter	61-175
Isolated Ground Adapter	61-176
Alligator Clip Adapter	61-183



True RMS

SureTest® 160 Series Specifications				
	RANGE & RESOLUTION	BASIC ACCURACY		
AC VOLTAGE	85.0 - 265.0 VAC	1.0%		
FREQUENCY	45.0 - 65.0 Hz	1.0%		
IMPEDANCE	0.00 - 1.99 Ω	5.0%		
GROUND-NEUTRAL VOLTAGE	0.0 - 24.0 VAC	2.0%		
% VOLTAGE DROP 12A, 15A, 20A load tests	0.1% - 50.0%	5.0%		
GFCI TEST CURRENT Times out after 6.5 seconds	6.0 - 9.0 mA 0.0 - 6500 mS	2.0%		









Circuit Identifiers

- Fully automatic operation
- Positively identifies circuit breakers and fuses without service interruption
- Self calibrating
- Visual and audible indicators
- 2-year warranty





Circuit Identifier Specifications				
	61-532	61-534		
OPERATING VOLTAGE	100 - 140 VAC	100 - 250 VAC		
OPERATING FREQUENCY	47 - 63 Hz	47 - 63 Hz		







Accessories

Optional	
Carrying Case	C-290
Alligator Clip Adapter	TL-532



61-058

operation

Carrying Case

61-051

Tests GFCI

receptacles for

proper operation

E-Z Check[®] Plus **GFCI Circuit Tester**

SureTest® Arc **Circuit Tester**

SureTest® Arc Circuit Tester

Features

- Tests AFCIs for proper operation
- Tests GFCIs for proper operation
- Tests for shared neutrals
- Verifies wiring configuration
- Compact size fits comfortably in pocket
- 1-year warranty

Tests AFCI/GFCI devices for proper





Accessories

Optional	
1' Cord Adapter	61-177
Allligator Clip Adapter	61-184
Carrying Case with Belt Clip	C-50





E-Z Check® Circuit Testers

Features

- Tests for correct wiring, open ground, reverse polarity, open hot, open neutral, hot on neutral, hot and ground reversed with open hot, and ground fault interruption in 3-wire, 125VAC
- No-slip ergonomic design maximizes comfort
- Premium neon lamps prevent false readings
- Tough, impact-resistant case
- Tests GFCI receptacles for proper operation
- 2-year warranty





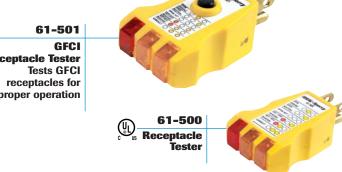


Receptacle Testers

Features

- Warns against faulty wiring in 3-wire receptacles
- For use on 125VAC circuits
- 1-year warranty







Vol-Con® Elite Voltage Testers

Features



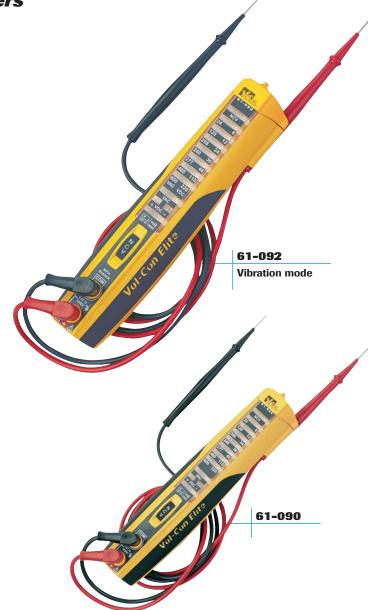
- Digital circuitry for better resolution
- Tests for AC Voltage from 24-600VAC
- Tests for DC Voltage from 6-220VDC
- Audible continuity
- Non-contact voltage indication
- Low impedance to eliminate ghost voltages
- Low battery indicator
- Replaceable silicone test leads
- Integral lead storage
- 2-year warranty

Accessories

Includes	
Silicone Test Leads	TL-102
Optional	
Carrying Case	C-90



Vibration mode gives a tactile indication of the voltage level.





Non-contact voltage sensor easily locates breaks in power cords.



Solenoid Voltage Testers



- Extremely rugged and reliable
- Vibrates when voltage is present
- Tests for AC Voltage
- Tests for DC Voltage
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator lamp
- Dual voltage indication for backup safety
- 2-year warranty

Accessories

Includes	
Standard Test Leads	61-070
Optional	
Resistor-fused Leads*	61-072
Padded Nylon Case	C-90
Leather Case	61-010

*Special, current-limiting resistor in each lead acts as a fuse to open in a short-circuit situation.



61-065

Vol-Test® Voltage Tester Tests from 100-600V AC/DC



61-076

Vol-Con® Voltage/ **Continuity Tester** Automatic switching continuity tester, tests from 5-600V AC/DC



Features



- Extremely rugged and reliable tester
- Vibrates when voltage is present
- Tests AC/DC Voltage
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator
- Dual voltage indication for backup safety
- Compact size
- 2-year warranty

Accessories

Includes	
Standard Test Leads	TL-80
Optional	
Resistor-fused Leads*	TL-82
Padded Nylon Case	C-90
Leather Case	61-010

*Special, current-limiting resistor in each lead acts as a fuse to

open in a short-circuit situation.







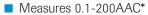




Split-Jaw™ Smart Meter







■ Measures 1.3-750VAC

■ Measures 0.1-1000VDC

■ Measures 0.1-2000 Ω

Audible continuity

Data hold

Integral lead storage

■ Replaceable test leads

Auto power off

Low battery indication

2-year warranty









Ohms/ **Continuity** U

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Accessories

110000001100	
Optional	
Carrying Case	C-90

Specifications	61-09	96
AC VOLTAGE	1.3 - 750 V	1.5%
DC VOLTAGE	1.8 - 1000 V -0.6 - 1000 V	1.0%
AC CURRENT	0.6 - 200.0 A	3.0%
RESISTANCE	0 - 2000 Ω	1.0%

*Note: Jaw opening is 0.6 in. (16mm) - up to 1/0 copper cable









VoltAware™ Non-Contact Voltage Tester

Features





- Indicates presence of voltage from 50-1000VAC
- Visual indication of voltage
- Selectable audible indication of voltage
- Sleek, compact design
- Green LED indicates power on
- Low battery indicator
- Battery replacement (AAA size)
- 2-year warranty



Non-Contact Voltage Tester



- Tests for voltage from 40V to 600VAC
- Audible and visual indication
- Locates breaks along live insulated wires
- Tests for energized circuits
- 1-year warranty



Continuity Tester

Checks continuity of dead circuits and ground on conduit systems and identifies wires in multi-wire cables

Light signal indicates completed circuit

- Bulb-in end can serve as flashlight
- Pocket clip functions as probe
- Removable 4-ft. test lead with alligator clip

61-030

Continuity Tester

1-year warranty

Circuit Tester

Industrial-quality tester checks voltage from 80V to 600V AC/DC

Neon test lamp at front of probe

■ Resistors reduce voltage reaching leads

- 24-in. lead rated 1,000V
- 1-year warranty

61-040 Test-Glo™ Circuit **Tester**

Twin Lead Tester

- Check voltage from 80V to 500V AC/DC
- Heavy-duty test probes
- 1-year warranty





3-Phase/Motor Rotation Testers

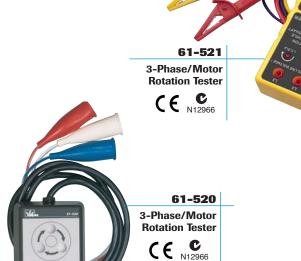
Features



- Identifies three-phase sequence
- Indicates motor rotation
- Checks for open phases
- For use up to 600V
- 2-year warranty Includes carrying case

Features

- For use up to 600V
- Color-coded insulators over alligator clips
- Shock resistant housing
- Easy to read
- 2-year warranty Includes carrying case



Light Meter

- Wide lighting range
- Foot candle and lux measurement
- Remote light sensor
- Cosine and color corrected
- Peak hold
- Low battery indication
- 2-year warranty Includes carrying case





Specifications	61-	681
	RANGE & RESOLUTION	ACCURACY
FOOT CANDLES	20.00/200.00/2000.0/200000	2%
LUX	20.00/200.00/2000.0/200000	2%

Infrared Thermometer

Features

- 15:1 angle of viewability
- Built-in laser pointer
- Backlit display
- Auto power off
- Measures temperatures from 0° F to 500° F (-18° C to 260° C)
- 2-year warranty Includes carrying case



(€ № N12966



Specifications	61-682	
RANGE & RES	OLUTION	ACCURACY
0° F to 500° F (-18°	' C to 260° C)	3.0%

Current Clamp Adapters

- Provide safe, easy measurement of AC current
- Extend the current measurement capabilities of digital multimeters
- AC milli-volt output (1mVAC = 1mA)









2' lead length

Flexible Clamp Adapters

Features

- Provide safe, easy measurement of high AC currents
- Large opening and flexible materials to wrap around conductors and bus bars
- Shape Memory allows pre-forming before installation
- Extend the current measurement capabilities of digital multimeters





Specifications	61-330	61-331	61-332	61-333	61-334	61-436	61-451
AC CURRENT	1000 A	300/3000 A	200 A	500 A	600 A	1000 A	300 A
DC CURRENT	_	_	_	_	600 A	_	_
OUTPUT SIGNAL	1mV/A	1mV/A/10mV/A	1mV/A	1mV/A	1mV/A	1mV/A	1mV/A
MAX CONDUCTOR SIZE	8" (19cm)	8" (19cm)	0.78" (19.8mm)	1.18" (30mm)	1.125" (28.5mm)	2.25" (57.1mm)	0.91" (23mm)
SENSOR LENGTH	24" (61cm)	36" (91cm)	_	_	_	_	_

(€ № N12966





61-561

Line splitter with direct and 10x sensitivity





Carrying Case Selection Guide

	32	0 Sei	ies		350		30	60	4	90	60	0 Ser	ies	6	10	63	30
MULTIMETER CARRYING CASE SELECTION GUIDE	61-320	61-322	61-324	61-350	61-352	61-354	61-360	61-361			61-602		61-609	61-610		61-633	61-635
C-290 Nylon Carrying Case	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•

	R CARRYING CASE TION GUIDE	61-058	61-065	Volta 920-19	ge Te	sters 980-L9	61-090	61-092	61-681	61-682	61-164	61-165	61-954	61-956	61-958
61-010	Leather Tester Case		•	•											
61-020	Premium Leather Tester Case		•	•											
61-179	Nylon Carrying Case										•	•			
C-50	Nylon Carrying Case	•													
C-90	Nylon Carrying Case		•	•	•	•	•	•	•	•					
C-954	Hard Carrying Case												•	•	
C-958	Hard Carrying Case														•

01.444			70	0 Ser	ies	7	30	76	0 Ser	ies	7	70
	METER CARRYING CASE FION GUIDE	61-452	61-701	61-702	61-704	61-732	61-736	61-764	61-766	61-768	61-772	61-774
61-179	Nylon Carrying Case					•	•					
C-452	Nylon Carrying Case	•										
C-700	Nylon Carrying Case		•	•	•							
C-730	Nylon Carrying Case					•	•					
C-760	Carrying Case							•	•	•		
C-770	Nylon Carrying Case										•	•

Test Lead Kits



TL-435

Industrial Test Lead Kit

Kit contains: 1.5m silicone lead set, probes w/SS tips, rigid alligator clips, flex pincer clips, insulated alligator clips, insulated spade lugs and padded zipper pouch, 1000V, 10A rating

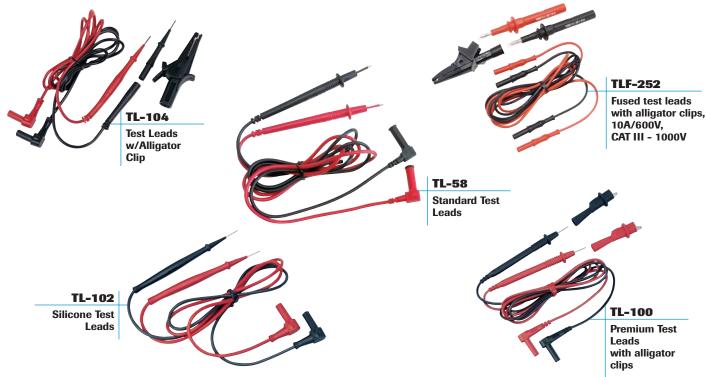


TL-436

Electrical Test Lead Kit

Kit contains: 1.5m silicone lead set, probes w/SS tips, insulated alligator clips and tri-fold pouch, 1000V, 10A

Test Leads



Thermocouples

Features

- Measures up to 1500° F (816° C)
- K-type thermocouples plug into digital multimeter or clamp meter voltage ports with 61-465 adapter



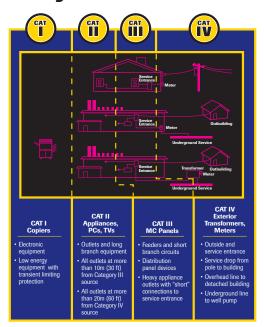
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Replacement Parts Selection Guide

		310	Series	320	Series	350	Series	360	450	490	60	0 6	10	700	Series	710	73	0	760	Series	770
	REPLACEMENT	문	61-312 61-314	320	61-322 61-324	22	61-352	61-360 61-361	61-452	61-494	S 15	문	61-614 0	5	61-702 61-704	61-710	61-732	36	94	61-766 61-768	61-772
PARIS S	SELECTION GUIDE	19	61-8 61-8	5	61-6 61-6	5	<u> </u>	61-8	7-19	7-19	9-	5	9-1-9	1-19	7-L9 61-7	1-19	61-7	-19	1-19	61-7 61-7	61-7
FUSES																					
F-1	0.5A (250V) 0.25 x 1.25 in.												•			•					
F-102	1A (600V) .41 x 1.5 in.				• •					• •	,										
F-103	15A (600V) .41 x 1.5 in.									• •)										
F-310	250mA (250V) 5 x 20mm	•																			
F-312	500mA (250V) 5 x 20mm		• •																		
F-314	10A (250V) 5 x 20mm		• •																		
F-350	10A (500V) 6.35 x 32mm						• •														
LA-3893	2A (600V) 6.35 x 25.4mm							•													
LA-3895	0.5A (250V) 5 x 20mm											•									
LA-3896	0.5A (500V) 6.35 x 32mm							•													
LA-3897	10A (600V) 6.35 x 25.4mm	l e						•													
LA-3898	0.1A (250V) 5 x 20mm							•													
BATTER																					
61-201	1.5V (LR44)											•									
_	1.5V (AA)	•	•	•					•			•	•			•					
—	1.5V (AAA)		•														•	•			
_	9V				• •			• •		• •				•	• •				•	• •	• •
TEST LE																					
TL-34	Leads w/pin connectors											•									
TL-54	Test Leads																				
TL-58	Standard					•	• •	• •	•							•	•	•			
TL-100	Premium leads w/alligator clips	3		•	• •					• •	,										
TL-102	Silicone test leads													•	• •						
TL-104	Test leads w/alligator clips																		•	• •	• •
RUBBER																					
61-370	360 Series rubber boot							• •													
C-92	Pocket-style meters rubber boo	it																			
C-320	320 Series rubber boot			•	• •																
C-490	490 Series rubber boot									• •	,										
	LANEOUS																				
61-565	Magnetic Strap			•	• •	•	• •			• •	•										

Safety in the Field



The power demands of today's high-tech world have caused a marked increase in occurrences and levels of transient overvoltages. The International Electrotechnical Commission (IEC) has developed a safety standards model for measurement, control

Category I - The signal level for telecommunications, electronic and other low-energy equipment with transient-limiting protection. Peak impulse transient range is 600-4,000 volts with a 30 ohm source.

Category II - The local level for fixed and non-fixed powered devices including appliances, lighting and portable equipment. Outlets located more than 30 feet from CAT III sources and 60 feet from CAT IV sources. Peak impulse transient range is from 600-6,000 volts with a 12 ohm source.

Category III - The distribution level for fixed primary feeders or branch circuits. Circuits that are separated from CAT IV sources by at least one level of transformer isolation. Peak impulse transient range is 600-8,000 volts with a 2 ohm source.

Category IV (proposed) - The primary supply level for the highest levels of transient overvoltage. Includes the utility service both outside and at the service entrance, service drop from the pole to the building, overhead line to remote buildings, and underground line to a well pump. Peak impulse transient range is 600-12,000 volts with less than a 1 ohm source.